

# Form expressions

- 1 Tommy uses linking cubes to represent an unknown number and base 10 ones to represent 1



Write algebraic expressions to describe the sets of cubes.

The first one has been done for you.



$2x + 3$



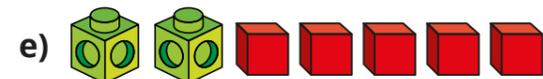
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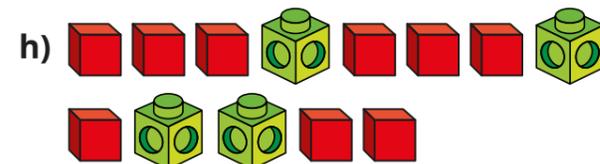
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- 2 Use linking cubes and base 10 ones to represent the expressions.

a)  $x + 2$

c)  $3x + 1$

b)  $2x$

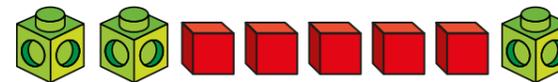
d)  $x + 6$

Compare answers with a partner.

- 3 Use cubes to help you simplify the expressions.

The first one has been done for you.

a)  $2y + 5 + y$



$3y + 5$

b)  $3a + 2 + a + a$



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c)  $6p + 2 - 2p$

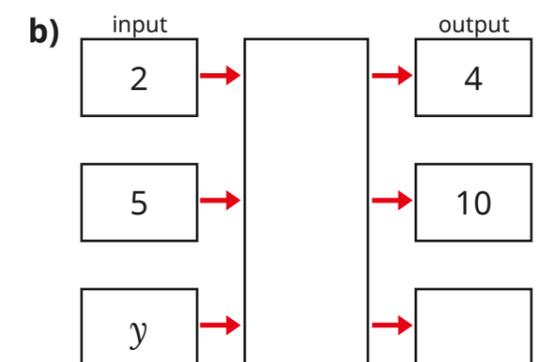
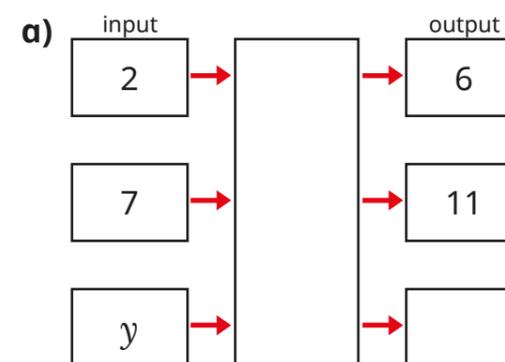


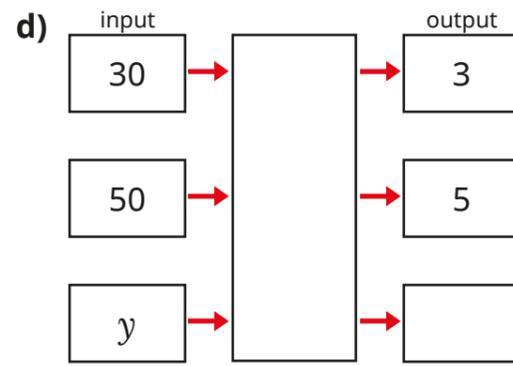
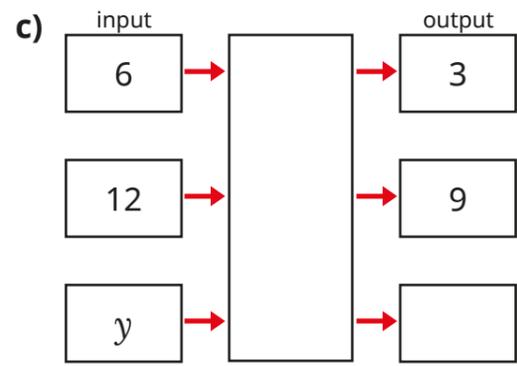
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d)  $m + 4 + 3m - 3$

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- 4 Complete the function machines.



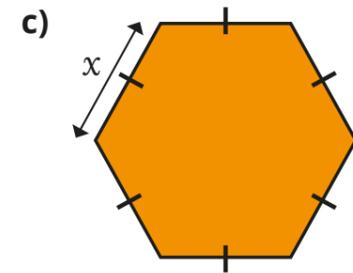
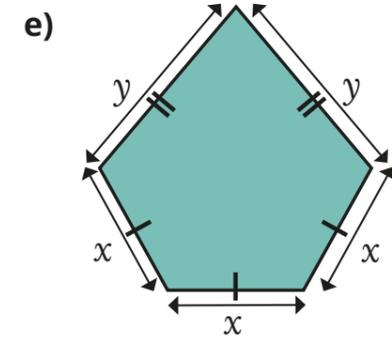
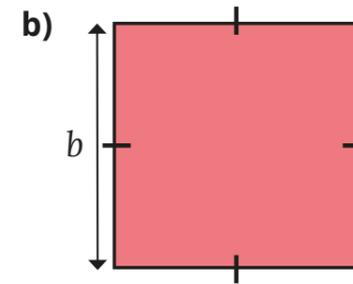
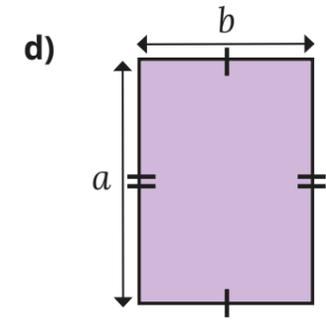
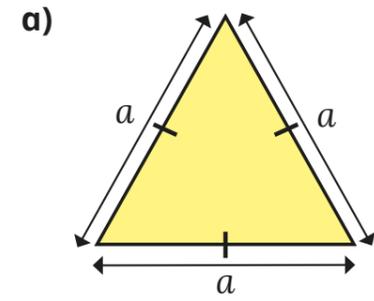


5 Match each statement to the equivalent algebraic expression.

Write the missing statements.

5 more than $y$	$2y$
$y$ less than 5	$y - 5$
$y$ multiplied by 5	$5 - y$
$y$ divided by 5	$y + 5$
double $y$	$5y$
	$y^2$
	$\frac{y}{5}$

6 Write an algebraic expression to represent the perimeter of each shape.



7 Complete the bar models.

